

REMARKS

Pending in this application are claims 48-75.

The Examiner has rejected claims 48-75.

Claims 1-47 were previously canceled.

Technology Tutorial

Applicants believe that a brief discussion of the technology disclosed in this application and the cited references would assist the Examiner.

This Disclosure

We have previously discussed our disclosure with the Examiner on several occasions.

Olsen Reference

The Olsen reference WO 98/33125 is also available in a more legible format as US Patent No. 6,519,642. For legibility, we are using excerpts and column/line citations from the US patent.

Olsen addresses, "A system and method for creating, executing, and maintaining shared, automated business processes across distributed organizations comprises capabilities that enable interoperation among heterogeneous information systems."

The Olsen reference is useful in considering the level of creative skill in the art. See, e.g., *Ex parte Jud*, App. No. 2006-1061 (BPAI decided Jan. 30, 2007) *expanded panel on reh'g*. In the US application, SPE Jason Cardone accepted the teachings of the application as representing an inventive effort. This bolsters Applicants' position, because Olsen is only available as a 102(e) reference, not a 102(a) reference, given the declarations that have been accepted in this application. That is, Olsen did not become available to those of skill in the art for reference until **after** the date of our reduction to practice and, as of the date of Olsen's application, the allowed claims of the '642 patent represented inventive work, beyond the level of ordinary skill in the art.

The Examiner focuses on FIG. 1, reproduced below:

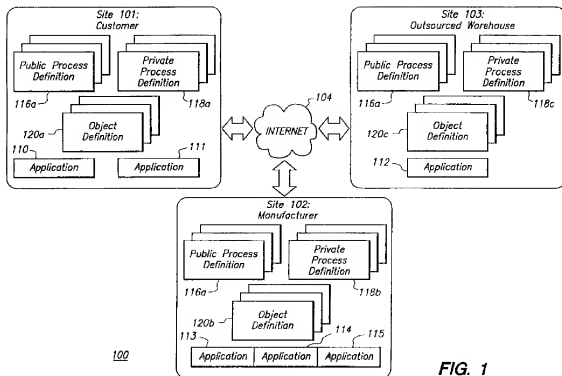


FIG. 1

From FIG. 1, we note that all three sites, the customer site **101**, the manufacturer site **102** and the warehouse site **103**, have their own copy of the Public Process Definition **116a**. Discussion of **116a** is found in cols. 5-6 and the reference number is used again in col. 7 line 28.

A public process definition **116a** (reference **200** in FIG. 3) is specified using a process definition language. Col. 5, lines 36-57. "More formally, the process definition language of the preferred embodiment includes node and arc elements that are combined with a specific ordering and logic to create a directed graph. ... A single source node **205-225** and a single destination node **205-225** define each arc element. Each node **205-225** includes a set of input arcs and associated logic connecting it to antecedent nodes **205-225** and a set of output arcs and associated logic connecting it to consequent nodes **205-225**. ..." In these passages, Olsen teaches something very specific, which Examiner Cardone considered inventive, which did not become available as a patent document to those of skill in the art until after our date of reduction to practice.

While the Bryan reference, discussed below, repeatedly uses the word "repository," that word is not used in Olsen. There is no description in Olsen of a repository shared among different sites **101**, **102**, **103**, either by that name or any synonym. What Olsen teaches is a protocol for an authoring service to push an update installation message to all participant sites. Col. 11, lines 17-35.

Olsen teaches that "the public process definition **116a/200** is distributed to the different sites **101**, **102**, **103** by a manager set **482**, which initiates the installation of the process definitions into engine **484**. During installation, the execution engine **484** transforms the process definitions it receives into executable state machines which are saved in database **410**." Col. 9, lines 10-15. Olsen does not teach a service providing, in response to a request, one or more machine-readable specifications from a registry via a communication network to a requesting node. Instead, Olsen pushes software updates to participants.

Bryan Reference

The Examiner also has cited "Guidelines for using XML for Electronic Data Interchange"; Version 0.02; Editor: Martin Bryan, The SGML Centre; September 12, 1997 ("Bryan"). We suggest that the Examiner visit www.geocities.com/WallStreet/Floor/5815/guide.htm?20079 to view Version 0.05 of Bryan, which has pictures added and some text, at a date that does not qualify it as a 102(b) reference. The pictures help understand the reference.

The Bryan reference builds up to previewing XSL with a code example that substitutes an XML message to be delivered to a browser for a more traditional EDI message. The XML message code is accompanied by a DTD definition statement and a sample, proto-stylesheet for rendering XML to a browser. In the introduction to the example, Bryan explains that the reference is intended to preview using XML Stylesheet Language ("XSL") to format an XML message, as "*Unfortunately the XSL specification has not yet been made public ... When it is published a pointer ... will be placed here.* [¶] For an example of the use of XSL specifications refer to Appendix A." *Id.*, p. 19. The example XML, DTD and proto-stylesheet appear at pp. 19-28. The first half of Bryan is akin to a literature review or background section. The second half teaches about XSL.

A timeline of XML-related development helps us understand where Bryan was compared to the ordinary skill in the art. Author Kenneth Sall, on his XML Family of Specifications Timeline, gives “8/98 – 10/1” as the era of Extensible Stylesheet Language (XSL) Version 1.0, which is after the date of reduction to practice for these claims. Kenneth B. Sall, XML Family of Specifications, A Practical Guide (May, 2002) (timeline published with book). The Examiner should recognize XSL as a predecessor to XSL Transformation language (“XSLT”) Version 1.0, which Sall dates as “4/99-11/99”, after this application was filed. A copy of Sall’s book and timeline are available to the Examiner by contacting Primary Examiner William Bashore. The timeline suggests that Bryan was at the cutting edge of skill in the art and that development beyond Bryan was at the inventive frontier of XML tool development.

The Definitions section of Bryan, at pp. 3-4, explains EFIFACT, a predecessor to XML. References to a field description table for each EDI message and to a data element dictionary describe technology akin to a database definition, with optional and mandatory elements.

On page 5, reference is made to a pointer in the context of an invoice. During processing of an invoice, the line items of the invoice were stored in a database. The pointer identified the database from which the invoice data would be fetched each time the invoice was processed.

The XML/EDI Components section, at pp. 8-12, portrays XML parsers, document browsers, page mark-up programs and related software functions as available, off the shelf, in 1997. Remember that stylesheets were not part of the available software, because the XSL standard draft had not been released to the public when Bryan wrote the reference.

For development, at p. 9, Bryan suggests that new applications be created. He lists components that did not yet exist, saying “specific components will ... manifest themselves ... new applications will be created from the spark ... The following list [is] ... a starting place for development.”)

The Examiner has noticed, in the starting list for development, Bryan’s use of the phrases “Lexicon Repositories” and “XML/EDI Business Objects (Java

applets and Active X components)", pp. 9-12, but has not discussed what Bryan teaches about these items for development, reading Bryan as a whole. We emphasize that these phrases are in Bryan's list of things to be developed.

Bryan envisions development of Lexicon Repositories, including DTD Repositories. But he does not teach anything about what would be found in the repositories, except what the two-word name suggests. A "DTD Repository" might contain DTDs, but Bryan does not suggest what elements would be in a particular DTD found in the repository or any extensions to the DTDs of September 1997. Unless one already knew what a DTD repository would be, Bryan is not enabling. The two words "DTD Repository" in a list of things to be developed, does not read on the more detailed words of our claims. Instead, it suggests a strongly felt need for something like what Melter et al. / Veo / Commerce One developed.

Developing DTDs, at pp. 13-15 identifies groups that should work on developing DTDs and gives some simple code examples. Bryan predicts, "XML DTDs will typically be stored in separate files, which can be referenced, as an XML external subset, by those wishing to use it through the Internet Uniform Resource Locate that its originator has assigned to a publicly available copy of the data." This prediction teaches more about exposing DTDs for reference, but it still does not go beyond the older practice of using include statements in program code to reuse data structure definitions stored somewhere else.

The Creating Message Instances section, at 15-16, again uses the word "pointer," this time to refer to the first line of an XML message as including a URL at which a DTD might be found. We point out that neither the syntax or semantic that Bryan used in September 1997 for the "pointer" prevailed in XML Version 1.0. Moreover, Bryan's code examples are not clean and well-formed – they require various edits to properly validate against the XML version 1.0 language definition, which indicates that XML editors were relatively primitive in September 1997 or the language definition was still in flux.

XSL is previewed at pp. 17-19.

After background on book ordering in England, Bryan give an XML encoded Book Order Message at pp. 21-22. This XML message could be used to communicate an order for a pair of books entitled "Chrome" and "William Morris", in lieu of an EDI message specified by the European Board of EDI Standardization, in the EDItEUR EDI Implementation Guidelines for Book Trade Distribution. The message definition for this one message spans pp. 22-25 of the appendix. A proto-stylesheet, identified as "Processing Rules" appears as Figure A.4 at pp. 26-28.

Bryan previews how to send an XML message to a browser for display using a stylesheet. On the way to previewing XSL as a stylesheet language, Bryan names a variety of tools that need to be developed, but it is clear that the tool about which he is teaching is XSL, not repositories.

With this discussion of the references in mind, we turn to the Examiner's rejections.

Rejection Under 35 U.S.C. § 102(b) of Claims 48-75

The Examiner rejects **claims 48-75** under 35 U.S.C. § 102(b) as anticipated by "Guidelines for using XML for Electronic Data Interchange"; Version 0.02; Editor: Martin Bryan, The SGML Centre; September 12, 1997.

As explained above, these guidelines preview use of the not-yet public, soon to be published XSL standard for stylesheets.

Claim 48

Claim 48 includes the limitations:

maintaining a registry of machine-readable specifications specifying business services offered by trading partners, the machine-readable specifications including at least one of definitions of, and references to definitions of, services offered and at least one of definitions of, and references to definitions of, documents to be exchanged with such services by trading partners; and

providing, in response to a request, one or more of the machine-readable specifications from said registry via a communication network to a requesting node.

These limitations are not found in Bryan.

Pages 8-10 of Bryan, particularly where they refer to any repositories,

describe things remaining to be invented, anticipated only in the sense that the writer hopes that someone will fulfill recognized needs. Bryan makes it clear that the claimed subject matter had not been invented when the Guidelines were published in September, 1997. He wrote:

*The following XML/EDI specific components **will** either **manifest themselves** as built-in components into existing products, plug-in programs to existing tools, ActiveX controls, or standalone applications. It is **anticipated that new applications will be created** from the spark of XNII/EDI implementation. The following list isn't comprehensive, but a **starting place for development**.*

(boldfacing added.) To the extent that the Examiner relies on mention of repositories on pp. 8-10, the reliance is misplaced and there is no basis for a section 102 rejection.

The Examiner also relies on definitions on pp. 3-4. The only plausibly relevant passages that we see on pp. 3-4 are:

***EDIFACT messages are transmitted in compressed form, using predefined field identifiers, which must occur in a predefined sequence.** While EDI is, strictly speaking, wider in scope than EDIFACT, for the purposes of these guidelines EDI will be used in this restricted sense when not otherwise qualified.*

*Originally, EDI translation software was developed to support a variety of private system formats. Most often, the sender and receiver were required to contract in advance for a tailored software program that would be dedicated to mapping between their two types of datasets. **Each time a new sender or receiver was added to the client list, a new translation program would be needed** by the new party to format their data to conform to the standards in use by the participants. Of course, this becomes expensive.*

This passage describes EDIFACT as a marginal improvement over legacy EDI translation software in a different direction than these inventors pursued; it does not describe any aspects of EDIFACT that read on claim 48. While Bryan previews the not yet released XSL standard with a code sample and lists a number of additional development projects to be undertaken, Bryan does not enable or provide a written description of what we claim.

Therefore, claim 48 should be allowable over Bryan.

Claims 49-51

Claims 49-51 should be allowable over Bryan for at least the same reasons as the claim from which they depend.

Claim 52

Claim 52 includes the limitations:

wherein the machine-readable specifications include documents compliant with a definition of a predefined document including logical structures for storing an identifier of a particular transaction, and at least one of definitions and references to definitions of input and output documents for the particular transaction

These limitations are not found in Bryan. The discussion on which the Examiner relies, at pp. 13-14, describes the use of Data Type Definitions (DTD) with XML messages, either by reference or incorporated in the messages. This use of DTDs does not read on machine readable specifications for (a) a transaction identifier, (b) an input document and (c) an output document for the identified transaction. There is nothing inherent in the use of DTD that teaches what we claim.

Therefore, claim 52 should be allowable over Bryan.

Claim 53

Claim 53 includes the limitations:

wherein the storage units comprise parsed data

These limitations are not found in Bryan. Use of XML data teaches use of parsable, not parsed data.

Therefore, claim 53 should be allowable over Bryan.

Claim 57

Claim 57 should be allowable over Bryan for at least the same reasons as the claim from which it depends.

Claim 58

Claim 58 includes the limitations:

including associating trading partners with said machine readable specifications

These limitations are not found in Bryan, machine readable specifications or any association between the specifications and trading partners.

Therefore, claim 58 should be allowable over Bryan.

Claims 54-56 and 59-75

Claims 54-56 and 59-75 include many more limitations than the character data encoding and markup data identifying limitations to which Examiner refers to on page 4 of the office action. For instance, claim 59 is a device claim that includes:

a data processor coupled to the memory and the network interface which executes programs of instructions; wherein the programs of instructions include

logic to provide, in response to a request received at the network interface, one or more of the machine-readable specifications from said registry via a communication network to a requesting node

Similar limitations are found in independent claim 65. These limitations are not found in Bryan and Bryan does not read on these limitations.

Therefore, claims 54-56 and 59-75 should be allowable over Bryan.

Applicants respectfully submit that claims 48-75 should be allowable over Bryan.

Rejection Under 35 U.S.C. § 102(e) of Claims 48-75

The Examiner rejects **claims 48-75** under 35 U.S.C. § 102(e) as anticipated by Olsen et al. (WO 98/33125) (Designates the US; printed in English).

Claim 48

Claim 48 includes the limitations set forth above. These limitations are not found in Olsen. Olsen describes "A system and method for creating, executing, and maintaining shared, automated business processes across distributed organizations" but not the claimed system and method. In Olsen, neither the word "repository" or any of its synonyms is used. Olsen teaches an authoring site **101** pushing updated public process definitions **116a/200** to participant sites **102, 103**. Col. 11, lines 17-35. Olsen does not teach a service providing, in

response to a request, one or more machine-readable specifications from a registry via a communication network to a requesting node.

Therefore, Olsen does not read on claim 48 and the claim should be allowable over Olsen.

Claims 49-51

Claims 49-51 should be allowable over Olsen for at least the same reasons as the claim from which they depend.

Claim 52

Claim 52 includes the limitations:

wherein the machine-readable specifications include documents compliant with a definition of a predefined document including logical structures for storing an identifier of a particular transaction, and at least one of definitions and references to definitions of input and output documents for the particular transaction

These limitations are not found in Olsen. Olsen is an extension of an authoring system, not a registry of specifications or a service that responds to requests. It does not deliver specifications that include a transaction identifier and definitions of both input and output documents.

Therefore, claim 52 should be allowable over Olsen.

Claim 53

Claim 53 includes the limitations:

wherein the storage units comprise parsed data

These limitations are not found in Olsen. Olsen's XML data structures are parsable, rather than parsed data.

Therefore, claim 53 should be allowable over Olsen.

Claims 57-58

Claims 57 and 58 should be allowable over Olsen for at least the same reasons as the claim from which they depend.

Claims 54-56 and 59-75

Claims 54-56 and 59-75 include many more limitations than the character data encoding and markup data identifying limitations to which Examiner refers to on page 4 of the office action. For instance, claim 59 is a device claim that includes:

a data processor coupled to the memory and the network interface which executes programs of instructions; wherein the programs of instructions include

logic to provide, in response to a request received at the network interface, one or more of the machine-readable specifications from said registry via a communication network to a requesting node

Similar limitations are found in independent claim 65. These limitations are not found in Olsen, which describes an authoring and push technology. Olsen does not read on these limitations.

Therefore, claims 54-56 and 59-75 should be allowable over Olsen.

Applicants respectfully submit that claims 48-75 should be allowable over Olsen.

CONCLUSION

Applicants respectfully submit that the pending claims are now in condition for allowance and thereby solicit acceptance of the claims as now stated.

Applicants would welcome an interview, if the Examiner is so inclined. The undersigned can ordinarily be reached at his office at (650) 712-0340 from 8:30 a.m. to 5:30 p.m. PST, Monday through Friday, and can be reached at his cell phone at (415) 902-6112 most other times.

Fee Authorization. The Commissioner is hereby authorized to charge any additional fee determined to be due in connection with this communication, or credit any overpayment, to our Deposit Account No. 50-0869 (OIN 1006-2).

Respectfully submitted,

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